DATA SHEET

MITEL IP-DECT SYSTEM

SCALABLE, ROBUST, MESSAGING-CAPABLE WIRELESS SOLUTION

The Mitel® IP-DECT System provides a highly scalable, messaging-capable solution with a portfolio of wireless phones to address a wide range of usage scenarios. It is ideally suited to verticals such as healthcare, manufacturing, industrial, security, and retail that require wireless voice and messaging services. Integrating directly with the MiVoice Business communications solution (formerly Mitel Communications Director) and MiVoice Office communications solution (formerly Mitel 5000 Communications Platform), the system supports both European and North American DECT standards and can be deployed globally.

WORKFORCE MOBILITY IMPROVES CUSTOMER SERVICE AND BUSINESS EFFICIENCY

IP-DECT wireless technology enables businesses to extend the reach of their voice network to improve customer service in a cost-effective manner. Delivering relevant information in real-time to the responsible individual drives significant productivity benefits.

COST-EFFECTIVE, HIGHLY SCALABLE SOLUTION

The option of widespread cellular phone usage can be very costly. The Mitel IP-DECT System enables the enterprise to control and manage their mobile communications costs on the premises. The IP-DECT System can deliver up to 10,000 handsets per installation via up to 1,000 LAN-connected radio base stations delivering comprehensive, cost-effective voice and messaging radio coverage.

SUPPORT FOR SAFETY AND SECURITY IN CHALLENGING ENVIRONMENTS

A range of wireless handsets is available to suit a broad range of scenarios including office, healthcare (solvent and moisture resistance), industrial (dust and shock resistance), and security (alarming and location).

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MITEL IP-DECT BASE STATION

The IP-DECT base solutions are deployed over the LAN, integrating directly with MiVoice Business or MiVoice Office to provide wireless access to mobile users within the desired coverage area.

FEATURES

- Internal and external antenna variants (external antenna not available in North America)
- Connection to the MiVoice Business or MiVoice Office via LAN
- DECT radio interface
- Supports SIP over IP
- On-air synchronization
- Web interface for configuration and software upgrade
- Power-over-Ethernet (PoE) or local power supply
- Easy installation
- External LED status indication
- Roaming and handover
- Interactive messaging, alarm, and location (requires Mitel Wireless Services Messaging Gateway)
- Supports eight simultaneous calls
- Optional accessories include a power supply (if no PoE is available), a pole mounting set, and a protective external housing

MITEL®

TECHNICAL SPECIFICATIONS

DECT FREQUENCIES

· IPBS 2 Standard for use with DECT in the 880 – 1900 MHz frequencies
· IPBS 2 LA (Latin America) for use with DECT in the 1910 – 1930 MHz frequencies
· IPBS 2 US (North America) for use with DECT in the 1920 – 1930 MHz frequencies
· IPBS 2 Brazil for use with DECT in the 1910 – 1920 MHz frequencies

PHYSICAL

DIMENSION (L X W X D)	WEIGHT	MATERIAL	COLOR	EXTERNAL
170 × 170 × 38 mm (including mounting bracket) (6.69 x 6.69 x 1.5 in)	400 g (0.88 lb)	ABS molded plastic	White	2 × MCX connectors

POWER

POWER OVER ETHERNET	OPERATING VOLTAGE	POWER CONSUMPTION
IEEE 802.3af or local power supply	21 to 56 Vdc	Typical 4 W, Maximum 5 W

NETWORK

ETHERNET
10/100baseT

VOICE OVER IP

VOICE OVER IP	VOICE ENCODING
SIP with RFC 1889, RFC 2327, RFC 2396, RFC 2617, RFC 2782, RFC 2833, RFC 2976, RFC 3261, RFC 3262, RFC 3263, RFC 3264, RFC 3265, RFC 3311, RFC 3325, RFC 3326, RFC 3420, RFC 3515, RFC 3555, RFC 3680, RFC 3842, RFC 3891, RFC 3892, RFC 4568, RFC 3711, RFC 2246 and RFC 3280	G.711 A-law / µ-law (64 kbps) G.723.1 (5.3 kbps) G.729A and AB (16 kbps)

RADIO

RF OUTPUT POWER (E.R.P.), EU	RF OUTPUT POWER (E.R.P.), US
Between 23 dBm and 28 dBm (with internal antenna)	Between 17 dBm and 21.6 dBm (with internal antenna)

ENVIRONMENTAL

OPERATING TEMPERATURE	STORAGE TEMPERATURE	RELATIVE OPERATING HUMIDITY	RELATIVE STORAGE HUMIDITY
-10 °C to +55 °C, (14 °F to 131 °F)	-25 °C to +55 °C, (-13 °F to 131 °F)	15 to 90%, non-condensing	5 to 95%, non-condensing

IMMUNITY TO ELECTROMAGNETIC FIELDS	IMMUNITY TO ESD
10 V/m (EN61000-4-3)	6 kV contact discharge and 8 kV air discharge (EN61000-4-2)

MITEL WIRELESS SERVICES MESSAGING GATEWAY

The Mitel Wireless Services Messaging Gateway enables the wireless handsets to function as two-way messaging and alarming devices, allowing integration to other enterprise systems or specialized applications to provide mobile workers access to real-time critical information. The Wireless Services Messaging Gateway is a hardware-plus-embedded-software solution that includes one hardware base unit and two optional licenses, as described below.

WSM3 – BASE

- WSM3 hardware and power supply
- IP-DECT and Wi-Fi® (5624) support
- MiVoice Business (Mitel 3300 Controller) directory interface (searchable; 2,000 entry limit). Directory interface supported directly on IP-DECT R5 Base Stations if messaging capability not required
- Central Device Management (up to 100 users)
- Handset to Handset Text Messaging
- Web Messaging Tool (browser based; send to single handsets)

WSM3 – STANDARD LICENSE (BASE +)

- External Directory access (via LDAP)
- Messaging Acknowledgement
- Messaging to Groups
- Alarms Support
- PTT (Group Call) Support
- Enhanced Web Messaging Tool (bi-directional; priority; non-text alerts; groups)
- Two RS-232 external messaging interfaces (ESPA 4.4.4, TAP 1.8, or ALP)
- Ascom "Unite" Module Interconnect
- Single External Messaging Interface over IP (URL)
- Central Device Management (up to 2,500 users)

WSM3 – OAP LICENSE (STANDARD +)

- Third-Party Application Integration (over OAP)
- Advanced Interactive Messaging (over OAP)
- Call Setup (over OAP)
- Location (Alarm Triggered) Support (over OAP)
- OAP (Open Access Protocol) for integration to third-party applications

SIMPLIFIED DEVICE MANAGEMENT

MIVOICE BUSINESS MANAGEMENT INTEGRATION

The MiVoice 5603, 5604, 5607, and 5624 Wireless Phones (Wi-Fi) are configured as specific device types on the MiVoice Business, making the IP-DECT configuration more concise and making adds, moves, and changes simpler to manage from the MiVoice Enterprise® Manager. To consolidate management of the IP-DECT solution, the IP-DECT Management Tool now launches from the MiVoice Enterprise Manager, and SNMP alarms are sent from the IP-DECT system to MiVoice Enterprise Manager.

SIMPLIFIED DEVICE MANAGEMENT

Simplified device management is compatible with the MiVoice 5603, 5604, 5607, and 5624 (Wi-Fi) Wireless Phones. The following features are available (depending on handset type):

- Overview of all devices
- Configuration of handsets
- Configuration of network connected chargers
- Templates for common settings for several or all devices
- Software upgrade (can be scheduled to specific date and time)
- Backup of all handsets' individual settings, including contact list
- Download to handset of company phonebook
- Download to handset of contact list
- Download to handset of language file (for additional handset languages)
- Multiple devices can be handled simultaneously
- License handling for devices (upgrade device, move license)

DEVICE MANAGEMENT

The WSM3 enables centralized management of devices "over-the-air" or in conjunction with the MiVoice 5603, 5604, and 5607 Wireless Phone Handset Programmer or MiVoice 5624 Wireless Phone Handset Programmer over the LAN. This capability includes both programming and software upgrading.

PC-BASED DEVICE MANAGEMENT

The WinPDM software in conjunction with either the MiVoice 5603, 5604, 5607 Wireless Phone Handset Programmer or MiVoice 5624 Wireless Phone Handset Programmer enables management of devices on a one-by-one basis. This includes both programming and software upgrading.

DEVICE REPLACEMENT

In conjunction with either the MiVoice 5603, 5604, 5607 Wireless Phone Handset Programmer or MiVoice 5624 Wireless Phone Handset Programmer, it is now possible to simply and quickly transfer the full configuration of a disabled MiVoice 5603, 5604, 5607, or 5624 Wireless Phone handset to a replacement handset simply and quickly.

TECHNICAL SPECIFICATIONS

HARDWARE REQUIREMENTS

ELISE3

PC REQUIREMENTS

INSTALLATION AND ADMINISTRATION	SCREEN RESOLUTION
Windows® Internet Explorer® 8.0 or later Sun Java Runtime Environment (JRE) 6 or later Mozilla® Firefox® 3.6 or later	1024 x 768 pixels (minimum)

LANGUAGE

INSTALLATION GUI	OPERATIONAL GUI
English only	English as standard, translations can be added

CENTRAL PHONEBOOK

NUMBER OF ENTRIES (.CSV IMPORT)	SUPPORTED PROTOCOLS	SUPPORTED LDAP SERVERS
500 editable or 2,000 uneditable	LDAP 3 and MCD .csv files import	Microsoft® Active Directory® in Windows® 2000 Server Active Directory in Windows Server 2003

GROUP CAPACITY

NUMBER OF GROUPS
30 with up to 15 users and 1 with up to 50 users

TIME SYNCHRONIZATION

TIME SERVER ABILITY	AUTOMATIC DAYLIGHT SAVING ADJUSTMENT	DATE AND TIME FORMAT	TIME SOURCES
Yes – can act as NTP sever	Yes	Adjustable to commonly used formats	NTP server Local Clock

MESSAGING

IP-DECT MAX CAPACITY	WI-FI MAX CAPACITY	SUPPORTED SPECIAL CHARACTERS
12,000 messages / hour	12,000 messages / hour Maximum total capacity of messaging in WSM is 12,000 messages / hour	Swedish, Norwegian, Danish, Finnish, and German language

MESSAGE PRIORITY AND BEEP CODES

PRIORITY	BEEP CODES	COLORED MESSAGING
9 levels (requires 5604 or 5607 Wireless Phone Services license)	7	Yes; can be mapped to beep codes (required 5604 or 5607 Wireless Phone Services License)

LOCATION

BASE STATION	DECT BEACONS
Yes (required 5604 or 5607 Wireless Phone Services license)	Yes (required 5604 or 5607 Wireless Phone Services license)

SUPPORTED TELEPHONE SYSTEMS

DECT	WI-FI
IP-DECT	VoWiFi

One DECT system and Wi-Fi can run simultaneously (included with Standard License).

ALARM HANDLER (INCLUDED WITH STANDARD LICENSE)

TRIGGERS	MAX. NO. OF TRIGGERS	ACTIONS	MAX. NO. OF ACTIONS	LOCATION	BROADCAST
Input activity from ELISE3, Data from portables, Alarm from portables	250	Messages with information about user identity, alarm type and descriptions Activation of outputs on ELISE3	250	Nearest base station location can be included in messages	Messages can be sent to all users in one transmission

ADVANCED WEB MESSAGING TOOL (NETPAGE) (INCLUDED WITH STANDARD LICENSE)

MAX. NO. OF PREDEFINED MESSAGES

30 common messages, predefined messages with 50 call numbers each max 60 kB in total 30 local messages, max. 20 kB in total

MESSAGING PROTOCOLS AND MESSAGING INTERFACES (INCLUDED WITH STANDARD LICENSE)

SUPPORTED PROTOCOLS

ESPA 4.4.4 protocol, Ascom Line protocol, URL Messaging Protocol, TAP 1.8, URL protocol

OAP, OPEN ACCESS PROTOCOL (INCLUDED WITH OAP LICENSE)

OAP

Basic messaging, interactive messaging, alarm, and location

HARDWARE

ELISE3

Embedded solid state server for Linux-based application.
· Embedded Linux® server
· Wall mountable (horizontally or vertically)
· Can be rack-mounted side-by-side and back-to-front in 19-inch chassis
· Management via LAN or via mini-USB device port

PHYSICAL

DIMENSION (L X W X D)	WEIGHT	MATERIAL	COLOR
44 x 220 x 199 mm (1.73 x 8.66 x 7.83 in)	1,520 g (3.34 lbs)	Case: Sheet metal / plastic	Light grey / Dark grey

FUNCTIONAL

SUPPLY VOLTAGE	CURRENT CONSUMPTION
100 – 240 V AC ± 20%, 12 – 24 V DC (-25% and + 20%)	Max 275 mA of AC input (100 – 200 V AC), Max 1A at DC input (12 V)

ENVIRONMENTAL

OPERATING TEMPERATURE	STORAGE TEMPERATURE	RELATIVE OPERATING HUMIDITY	ENCLOSURE PROTECTION
0 °C to 40 °C (32 °F to 104 °F)	-25 °C to 55 °C (-13 °F to 122 °F)	30 – 85% (non-condensing)	IP 30

IMMUNITY TO ELECTROMAGNETIC FIELDS	IMMUNITY TO ESD
10 V/m	6 kV contact discharge and 8 kV air discharge

ALARM HANDLER (INCLUDED WITH STANDARD LICENSE)

RAM	NAND	SERIAL DATA FLASH	SD CARD (FUTURE USE)
256 MB	1 GB (for application)	8 GB (for booting purposes)	1 x slot for 1 GB SD card

INPUT / OUTPUT

TWO SERIAL PORTS	ONE SERIAL PORT	TWO LAN PORTS (ONE FUTURE USE)	USB PORTS
RS232 (modular jacks, RJ45)	RS485 (screw terminals or modular jacks, RJ45)	10baseT or 100baseT Ethernet (modular jack, RJ45)	2 x USB Host port, 2.0 full speed, 1 x Mini USB_B Device port 2.0 full speed

POWER SUPPLY	ERROR RELAY OUTPUT	AUX OUTPUTS	AUX INPUTS
1 x screw terminal for a 12 – 24 V DC external supply or 12 V CD lead battery maximum 10 Ah	Configurable – make / break operation (100 mA, 30 V DC) Used for fault actions and error indications	Two galvanically isolated open collector outputs (100 mA, 30 V DC)	Two digital inputs

ACCESSORIES

FRONT MOUNT RACK KIT	REAR MOUNT RACK KIT
Brackets to rack mount	Brackets to rack mount

MiVOICE 5603 / 5604 / 5607 WIRELESS PHONES CHARGERS AND PROGRAMMER

MiVOICE 5603 / 5604 / 5607 WIRELESS PHONE RACK CHARGER

- Wall Mountable
- Charges six MiVoice 5603 / 5604 / 5607 Wireless Phones simultaneously
- Charging status indicated on handset display

MiVOICE 5604 WIRELESS PHONE BATTERY PACK CHARGER

- Charges six batteries simultaneously for MiVoice 5604 Wireless Phone
- Wall Mountable

MiVOICE 5607 WIRELESS PHONE BATTERY PACK CHARGER

- Charges six batteries simultaneously for MiVoice 5607 Wireless Phone
- Wall Mountable

MiVOICE 5603 / 5604 WIRELESS PHONE DESKTOP CHARGER

- For charging a single MiVoice 5603 / 5604 Wireless Phone
- Charging status indicated on handset display
- Supports optional "In Charger" mode with absence indication
- Trickle and fast charge support

MiVOICE 5607 WIRELESS PHONE DESKTOP CHARGER

- For charging a single MiVoice 5607 Wireless Phone
- Charging status indicated on handset display
- Supports optional "In Charger" mode with absence indication
- Trickle and fast charge support

MiVOICE 5603 / 5604 / 5607 WIRELESS PHONE PROGRAMMER

- Charging functionality of the MiVoice 5603 / 5604 / 5607 Wireless Phone Desktop Charger
- Supports remote management
- Enables programming and upgrading of the phones on a one-by-one basis, using the PDM software (included) via USB
- Ethernet connection for centralized handset management via the WSM Gateway
- Supports easy replacement of telephones
- Supports MiVoice 5604 and 5607 Wireless Phone optional license activation

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